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TECH NEWS

Assembly
Wednesday—
Don't Miss It!

Z320

VOL. XXXIII

WORCESTER POLYTECHNIC INSTITUTE, WORCESTER, MASS., TUESDAY, JANUARY 12, 1943

NO. 24

"Leaders Needed - - How About You?" Is Topic of Dr. Bryan's Speech at Assembly

Famed Psychologist From Norwich, Conn., Speaking to Freshmen in Afternoon

A regular student assembly will be held this Wednesday at 11:25 A. M. in Alden Memorial. This assembly promises to be one of the best of the school year, as Dr. William K. Bryan, now superintendent of the Norwich State Hospital of Norwich, Conn., and formerly at the Worcester State Hospital, will speak on the importance of a stable personality in leadership. "Leaders Needed - - How About You?" will be from the viewpoint of a skilled psychologist. Dr. Bryan is a most interesting lecturer; he has a dynamic personality which will lend a stabilizing influence to the student body during these months of uncertainty. All students, realizing the importance of this information should make it a special point to attend this assembly. We are assured that it will be interesting, helpful, and humorous!

Dr. Bryan will also give a special freshman orientation lecture at four o'clock, which will be followed by a question period.

Music by the college band will supplement the speaker on the program.

Tech Council and Athletic Assn. Hold Elections On Jan. 20

Because of the accelerated program, it has been found necessary to cancel the chapel service originally scheduled for Wednesday, January 20. A special assembly will be held in its place, at which time the Tech Council and Athletic Association elections will be held. Dean Howe, originally scheduled to speak at the chapel service, will open the assembly with a short address. This will be followed by the election of the president of the Tech Council.

Edward Lipovsky, who is to handle this election, will select a nominating committee composed of members of each class. This committee will make several nominations, but additional nominations may be made from the floor.

Robert Seaton will take charge of the assembly at the close of the Tech Council election, and preside over the choosing of officers of the Athletic Council. All nominations for this group will come from the floor. According to a rule passed last year, the person elected president of the Tech Council cannot hold the same office in the Athletic Council.

Inventor Paine Demonstrates Machine Gun

Traces History of Gun At Monthly Meeting Of ASME Chapter

"The Thompson Sub-Machine Gun" was the subject of the evening at the monthly meeting of the Tech chapter of the American Society of Mechanical Engineers, held on December fourteenth in the lecture hall of the Higgins laboratories. Mr. O. T. Paine, executive at the Crompton & Knowles Loom Works and co-inventor of the "Tommy Gun," kept the 40 society members present on chair's edge as he traced the development of the weapon which sounded the death knell of the bolt action army rifle. Theodore A. Pierson, A.S.M.E. president, introduced Mr. Paine.

"General Thompson of the Army Ordnance Department became interested in rapid-fire infantry weapons during the last world war," said Mr. Paine. Beginning to experiment in a shop which he himself owned, the general placed Mr. Paine, who at the time was employed in the Patent

(Continued on Page 2, Col. 3)

Einar Eriksen Elected Glee Club President

Coming Concerts Are Announced With Framingham Teachers, Bancroft

Officers for the coming year were elected by the Tech Glee Club Thursday afternoon. Einar Eriksen was elected president to replace Tom Crossley and Robert Drew was elected vice-president to replace Colin Handforth. Robert Edgerly and Ed Baldwin were reelected secretary and librarian respectively.

An interesting program of events in the form of concerts with other schools is being planned. Cliff Green announced a concert with the Bancroft School Glee Club and the Tech Glee Club at the Worcester Art Museum sometime in April. Two concerts are being arranged with the Framingham State Teachers College for sometime this spring, with one of the concerts being given in Framingham if possible.

After the business of the meeting, the glee club turned its attention to a new song written by Cliff Green for graduation in significance of the Worcester Tech men all over the world now in the services and in essential war jobs.

Revised Schedule

Class of 1943 graduates Feb. 11, 1943
2nd term starts Feb. 11, 1943

Holidays: March 20

April 11

2nd term ends June 2, 1943

Vacation from June 3 through June 10, 1943

1st term starts June 10, 1943

Holidays: July 5

Sept. 6

1st term ends Sept. 29

Vacation from Sept. 30 through Oct. 6

2nd term starts Oct. 7, 1943

Holidays: Nov. 1

Nov. 25

2nd term ends Feb. 2, 1944

Class of 1944 graduates Feb. 2, 1944

Vacation from Feb. 3 through Feb. 9

1st term begins Feb. 10, 1944

Holidays: March 18

April 24

1st term ends May 31, 1944

Vacation from June 1 through June 7

2nd term starts June 8, 1944

Holidays: July 4

Sept. 4

2nd term ends Sept. 27, 1944

Class of 1945 graduates Sept. 27, 1944

Vacation from Sept. 28 through Oct. 4

1st term starts Oct. 5, 1944

Holidays: Nov. 4

Nov. 30

1st term ends Jan. 31, 1945

Vacation from Feb. 1 through Feb. 7, 1945

2nd term starts Feb. 8, 1945

Holidays: March 17

April 23

2nd term ends May 30, 1945

Class of 1946 graduates May 30, 1945

Hub Concern Gives Precise Instrument To Tech C. E. Dept.

Professor Fillion has announced that the Stone and Webster Company of Boston has given to the Civil Engineering Department a special instrument called the Gottschalk Continostat which is used for making stress analyses of continuous structures through the use of model structures.

The continostat was originally purchased by the Stone and Webster Company to make a difficult structural analysis of certain portions of the Conowingo Dam Power Plant across the Susquehanna River in Pennsylvania. However, since efficient use of any such instrument requires constant practice, the Stone and Webster

(Continued on Page 4, Col. 5)

Next Freshman Class To Begin Institute Life On June 22, 1943

Curriculum Under Revised Schedule Omits Shop Period

President Cluverius announced January 4 that the next Class of Freshmen will enter the institute on June 22.

Admission requirements remain unchanged. However, consideration will be given to the qualifications of applicants who have not completed the regular secondary school course, but who have had an excellent scholastic record, including the completion of mathematics and science requirements, and who are recommended by their schools.

The second important announcement from the President's office concerned the curricula for the accelerated schedule.

The courses outlined in the catalogue will be given during the war with only minor changes. They will be accelerated by the omission of summer vacations and summer practice periods, and will occupy a total time of 2 years and 7 months.

Available Seniors Are All Placed In Defense Industries

Although many of the Seniors are enlisted in the Naval Reserve and the Army Air Corps Reserve, there are many others available for industry who have already accepted positions ranging all the way across the United States.

The seniors who have already accepted position with industrial concerns are as follows:

Mechanical Engineering Department: Henry Durick and Lee Farnsworth, Goodyear Aircraft in Akron, Ohio; Carl Hartbower, Goodyear Tire and Rubber Co. in Akron, Ohio; Samuel Norton, Federal Machine and Welder Company, Warren, Ohio; Leon Rice and Pierre Volkmar, Douglas Aircraft in Santa Monica, California; Robert Painter, Curtiss Wright Corporation in Paterson, New Jersey; Thomas Sweeney, Curtiss Wright Corporation in Cincinnati, Ohio; Malcolm Walker, Curtiss Wright Corporation in Paterson, New Jersey; Frank Szel and Alfred Voedisch, National Advisory Committee for Aeronautics.

Electrical Engineering Department: Edwin Campbell, U. S. Army Signal Corps; Richard Goddard and Richard Robinson, National Union Company in New York; Leonard Hershoff, Westinghouse; Joseph Jolda, International Telephone and Radio Corporation; Thomas Landers, Sperry Gyroscope in New York; Ken-

(Continued on Page 2, Col. 3)

Seniors Included In Essay Award Rules Announcement

Essay On Some Scientific Or Engineering Subject To Be Handed In On April 14

The Class of 1879 at its fiftieth anniversary reunion endowed a prize of fifty dollars to be awarded annually to the undergraduate of Tech who prepared in conformity with the following rules of competition the best essay on some scientific or engineering subject.

The competition shall be open to all Institute undergraduates, and also to all members of the Class of 1943, who, although they will be graduated before the date set for receiving entries, will be privileged to participate in the contest, their essays to reach the chairman of the committee, by mail or otherwise, on or before the date set below.

The minimum length of the essay shall be 2,000 words; the maximum to be 4,000 words. The subject must be definitely in some field of science or engineering, and should be so written as to be suitable for publication in some general or popular magazine.

(Continued on Page 4, Col. 4)

Shift In Value Of Necessities Chapel Topic

Changing values of necessities in wartime was the subject of Reverend E. K. Van Winkle's speech at the last Chapel Service. He spoke of the relative demands, as shown by monetary value, for necessities in Greece as compared with the demand for the same articles in this country. He contrasted the value placed upon life by Americans and by the Japanese in normal times and pointed out that Americans are now showing their willingness to sacrifice that which they once prized so dearly. Their estimate of life's value has changed. Mr. Van Winkle stated that while many of our necessities of life can be bartered, religion is one thing that cannot be bartered, that it is something that we always need, that it alone is eternal.

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Worcester, Mass.

Editorial

Consideration or Consternation?

While some of us were home for our Christmas vacations we saw things which made us realize that our perspective on the war situation was somewhat distorted. During the traditionally hilarious New Year's Eve Celebration we noticed that Mom and Dad weren't as much a part of the party as they had been in former years. Could it be that they were thinking of the well-being of our big brother John who was now celebrating his New Year's Eve "somewhere in the Pacific"? The absence of Uncle Dick, who always could be relied on for a good laugh, was also noticeable. But he had a date with the night welding crew at the Navy Yard. The next morning when we went to church we wondered whether we were still living in the same community. Most of our pals whom we used to meet in church were missing. We heard the minister announce the weekly program for the church war committees and also special services for parishioners in the armed forces. During the week when we walked downtown to go to a movie we saw housewives standing in line in food stores and sometimes outside in the cold hoping that some foodstuffs were left when it came their turn. We read in the newspapers that people living in the impoverished sections of town had to wait in line for long periods of time before they got fuel oil for their cold homes. All these things seemed strange to us. When we kissed mom good-by before leaving we sensed that she was worrying over whether she would soon have to sacrifice us too. For the first time we realized what the people at home were sacrificing to help the war effort.

We have come back to school with a determination to correct our faltering ways. Let us see what we can do to help our Institute meet its war obligations. First of all let us determine to remain members of this community as long as possible. True, it is difficult overcoming the urge to join the service when we hear news of the departure of close friends. But remember, we are here only because the government feels that we'll be more valuable as trained personnel.

Some students have remarked on the apparent reticence of the school officials on the future status of the Institute. Consider that there may be reasons for their conduct. The officials are doing all they can to protect our interests. But they have to respect the authority of those they serve. Our interests must be subordinated to those of the country. We have a war to win first. Our officials have done well for us so far as is evident by the fact that we are nearly one-hundred per cent intact in numbers. We have strong leadership, let us give the faith it deserves.

At times like these many rumors circulate which only lead to confusion and unrest. For example the rumor recently persisted among students that regular diplomas would not be awarded after the completion of our accelerated schedule. This rumor had no basis whatsoever. The Dean has officially announced that regular diplomas will be awarded. If we don't have definite information let us not make speculative statements and start rumors.

A program of scholastic, physical, and spiritual development should claim our energies until the time comes. Meanwhile an occasional thought of the folks at home will provide the inspirational force for the task that lies ahead.

We are truly a company of engineers commencing a march on the field of scholastic battle which may end on the field of bloodshed. Let the company march with steady thought, less critical attitude, and more faith in its leadership.

Senior Placements

(Continued from Page 1, Col. 5)

neth Mansur, General Electric Company; Donald Russell, Naval Research Laboratory; George Stannard and William Tunnicliffe, Radiation Laboratory at M.I.T.; Roger Beard, Western Union Telegraph Company; George Fairhurst, General Electric Company; Donald Alexander has accepted a position as Instructor in Electrical Engineering here at W.P.I.

Chemistry and Chemical Engineering Department: Oseo Balestracci, E. B. Badger and Sons; Delbert Betterly, International Telephone and Telegraph Company; Arthur Grazulis and Calvin Holden, Columbia Alkali Company; Arvo Saarnijoki, Carnegie-Illinois Steel Company; Ralph Smith, Proctor and Gamble Company; Raymond Southworth, Standard Oil Company of New Jersey; Elmer Bennett, Goodyear Tire and Rubber Company; James Parliman, International Telephone and Telegraph Company; Franklin Robinson, Winthrop Chemical Company; Ralph Bretton (Graduate Student), Goodyear Tire and Rubber Company.

Civil Engineering Department: Jackson Durkee, Douglas Aircraft in Santa Monica, California; George Golding, United States Civil Service—Boston Navy Yard; Francis Santom, Hydrographic Survey at the Navy Department in Washington, D. C.

Physics Department: Alfred Bakanowski has joined the navy and hopes to be assigned to special work in the Naval Reserve; Friend Kierstead, Civil Service, and will be loaned by the Civil Service to a laboratory.

ASME Meeting

(Continued from Page 1, Col. 2)

Office, in charge of operations. A year passed before the two were satisfied with their machine gun, and when they were ready to manufacture it, the war had ended. Since then American police departments have been the chief users of the gun, although a number have been sold abroad.

"No, you can't get a tommy gun," smiled Mr. Paine as he described known ruses used by criminals in attempts to acquire the weapon.

To illustrate his talk, the speaker brought along a sub-machine gun as well as clips and drums of ammunition. He said that he had left the firing pin at home, however. "A good marksman can easily fire two hundred aimed .50 calibre bullets per minute with this weapon," said Mr. Paine. "It may be loaded either with clips of twenty shells or with drums of fifty." While demonstrating the gun to army ordnance officials, Mr. Paine dismantled it in nine seconds.

At the close of the meeting refreshments were served, and Mr. Paine answered student queries.

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Sigma Alpha Epsilon

President, Stanley Sherman; Vice-president, J. A. Templeton; Treasurer, David Field; Assistant Treasurer, Warren Willard; Secretary, P. W. Kempf; Social Chairman, Allan Gault; House Manager, Richard Fitts; and Steward, Lionel Seccombe.

Phi Sigma Kappa

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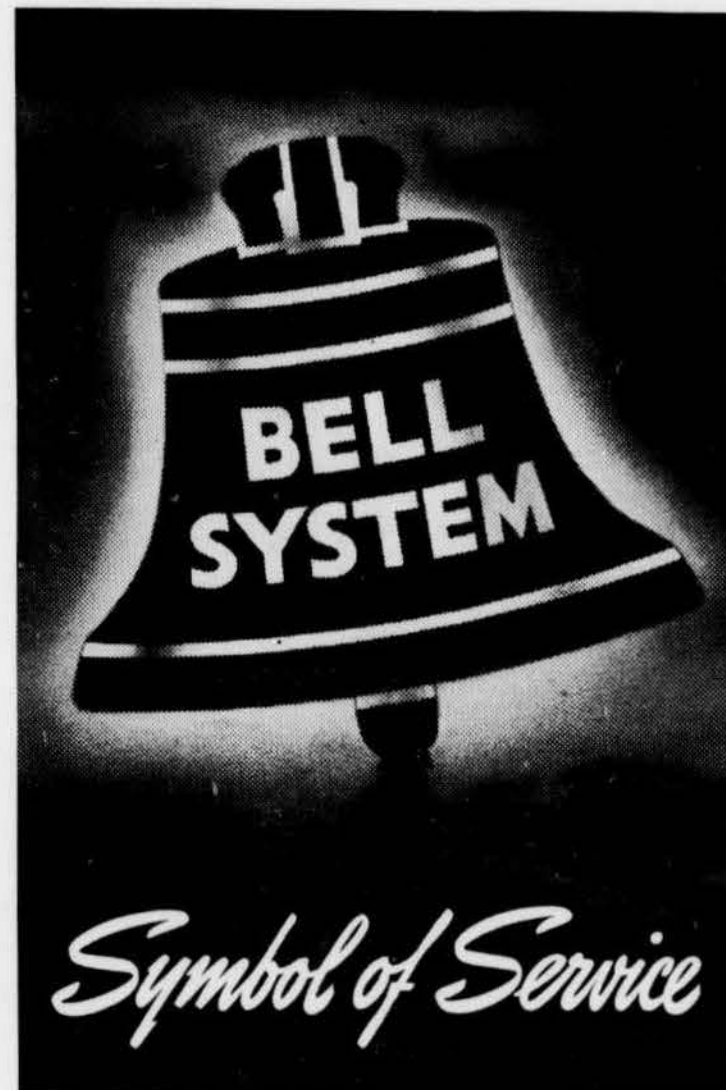
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5. Western Electric Co. is the manufacturing, purchasing and distributing unit.

The benefits of the nation-wide service provided by these companies are never so clear as in time of war.

WAR CALLS COME FIRST



SPORT'S SIDELIGHTS

By Bob Pim

Well, they did it again. Yes sir, the red hot basketball team of Worcester Tech knocked another one of its opponents right out of the undefeated column. This time the high-flying Hawks of St. Anselm from way up yonder in Manchester, N. H., met their first defeat at the hands of the engineers.

The first half gave all indications that the fans were to witness a close but uninteresting game. The lead saw-sawed back and forth with neither team playing particularly good ball. Tech roared away to a substantial lead at the outset but this soon was lost as the visitors climbed into a 12-12 tie. Then in the closing five minutes of the half a total of twenty points were swished through the cords and the period ended with Tech leading 23-21. The remarkable aspect of this first half was that the Hillers got 19 out of their 23 points in ten minutes. They scored 8 points in the first five minutes and then after a ten minute recess they again caught fire and hooped 11 to grab the half time lead.

The second half was a different story. The home team came out with a renewed spark and soon took a healthy lead never to be again headed

for the remainder of the game. As a matter of fact, it was quite a relief to win a game handily for a change. It gave the dark hairs a little chance to catch up to the dominating grays.

The most impressive feature of the game was that the Tech team scored the majority of their points in spurts. When they were "on", they did well; but when they were "off", well, that was another story. It was only because of consistently good guarding that they managed to hold the edge throughout. Howie Swenson, besides being high scorer in the game, proved a bulwark on the defense and had the Hawks' star, Tom Sharpy, bottled up the most of the evening. At the start, it was evident that something was wrong as shot after shot hit the home team rim only to go the other way, but soon they started to drop, and the home team pulled away. Twitchell played a fine game at forward and was spectacular during the second half while under the pressure of three personals that were called on him during the first period.

Although things look quite bright for the basketball team, the tough games are still to be played. This coming Saturday, Wesleyan comes to

(Continued on Page 4, Col. 3)

Phi Sig Leads In Fraternity Hoop League

The 1943 interfraternity basketball season is well under way, with the opening round over for all fraternities. The tournament began January 5 when T.K.P. defeated A.T.O. 34-20. In the second game of the evening, P.S.K. downed S.P.E. 39-18. Wednesday, T.X. was the victor over S.A.E. by a 24-8 score, and in the other game P.G.D. defeated L.X.A. in a hard fought game ending in a 13-10 score.

On Thursday evening A.T.O. won its second game by winning 50-5 over A.E.P., and T.K.P. won its second game by defeating S.P.E. 30-10. On Friday night P.G.D. won its second game by defeating T.X. in a close 15-11 game. P.S.K. won its second game by defeating S.A.E. 43-8.

In Saturday afternoon's games, Phi Sig won its third straight victory by defeating T.K.P.

	Won	Lost
Phi Sigma Kappa	3	0
Phi Gamma Delta	2	0
Theta Kappa Phi	2	1
Alpha Tau Omega	2	1
Theta Chi	1	1
Alpha Epsilon Pi	0	1
Lambda Chi Alpha	0	2
Sigma Phi Epsilon	0	2
Sigma Alpha Epsilon	0	2

Tech Cagemen Trounce Undefeated St. Anselm Five 55-37 For Fourth Straight, Remaining Undefeated in N. E. Ranks

Jayvees Romp Over Commerce High For Their First Victory

Raymond Scores 16 Pts., Simon Makes 10, to Star In Lop-sided 51-30 Win

Taking its first game in three starts, the Worcester Tech Jayvee basketball team topped Commerce High by a 51 to 30 score here last Saturday night. The Jayvee's, sparked by Al Raymond and Carl Simon, showed a vast improvement over their playing in the opening games.

Al Raymond was in excellent form as he scored 16 points, while Howard Cheney, comparatively unknown until this game, made himself outstanding with several "circus" shots. High scorer for the visitors was Pappus with six points.

The game was still young when Tech took a 6-0 lead. The visitors soon raised the score to 10-8 but it was Simon's swift scoring of three consecutive baskets that pulled Tech out of the heat. Raymond then came through with an additional 4 points, making the score 20-8 before Commerce scored another point. The score at half time was 30-14.

Cheney's three overhead shots started Tech off in the second half with Dember and Padden helping out. Coasting along with their large lead, Tech seemed unworried when Commerce outscored them 10-9 in the final quarter, making the final score 51-30.

Capt. Stone and Swenson High Scorers For Team In Rough and Tumble Tilt

The Tech Engineers ran up their fourth straight victory last Saturday night by defeating a game but out-classed St. Anselm five by the score of 55-37. Nearly 1,000 persons watched Coach Paul Stagg's Techmen rough-and-tumble with the foe through a close first half and spurt to victory during the final 20-minute period.

With the Tech team playing their most ragged game of the season, this St. Anselm team looked as if they might turn out their third victory as they trailed only by a score of 23-21 at the end of the first chapter. It was Howie Swenson, the game's high scorer, who popped home the basket that sent Tech into the last half with this slim two point lead.

Even though the Tech team came back strong during the second chapter, it still wasn't the same Tech team that scored three successive victories over the strong forces of Bates, Brown and Boston University. Their passes weren't clicking nor was Arnold Jones, Tech's leading scorer. Five minutes of the last half passed before the Hawks' Charlie Foley scored the visitors' first floor goal and Tech was leading, 29-24. With ten minutes left to play Tech was ahead 37-28 and Al McClellan, the excitable St. Anselm mentor, had relaxed on the bench and—almost—seemed resigned to seeing his lads take their first defeat.

Howie Swenson, with 11 points, was Tech's high scorer for the second time this season. Tied with Sharpy, the Hawks' high scorer with 10 points, was Captain Billie Stone who also contributed some neat floor work.

WORCESTER TECH

	fg	fp	tp
Twitchell f	4	0	8
Mills f	1	2	4
Swenson f	5	1	11
A. Jones f	3	0	6
Fleit c	3	0	6
Stowe c	1	0	2
Stone g	4	2	10
Laffey g	1	0	2
G. Jones g	2	0	4
Schmit g	1	0	2
Totals	25	5	55

ST. ANSELM

	fg	fp	tp
Stary f	5	0	10
Feeley f	0	1	1
Arent f	3	3	9
Crescenti c	2	0	4
Kuczynski c	0	0	0
Garvey g	1	1	2
Lundstrom g	1	0	2
Foley g	1	4	6
Boulseties g	1	0	2
Sullivan g	0	0	0
Totals	14	9	37

Undefeated Phi Sig Combine Is Tops In Relay

Phi Sig won the Interfraternity Relay competition, winning all eight of their races. Phi Gam and Sig Ep were tied for second place. In the last race of the season, Phi Sig's team of Lagerholm, Flink, Versoy, and Deloid recorded the best time of the year, 2:23 3/5.

The final standings:

	Won	Lost
P.S.K.	8	0
P.G.D.	6	2
S.P.E.	6	2
S.A.E.	5	3
T.K.P.	4	4
L.C.A.	4	4
A.T.O.	3	5
T.X.	1	7
A.E.P.	0	8

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G-E Campus News

PIPE DREAM

THE War Emergency Pipeline, largest oil trunk of its kind in the world, will go into operation in January. Extending 531 miles from Longview, Texas to Norris City, Illinois, the "Big-Inch" pipeline (so called because it is 24 inches in diameter) will help alleviate the oil shortage in the East.

G.E. recently shipped, five weeks ahead of schedule, the first two of fifteen 1500-hp motors it is building for the line.

Built of cast iron to conserve steel plate, the motors will be used to drive centrifugal pumps in booster stations along the line. These pumps will keep



1,330,000 barrels of oil flowing at a rate of 4 miles per hour—a delivery rate of 300,000 barrels a day at Norris City.

By June it is expected that the remaining section of the line, 857 miles long, will connect Norris City and the Atlantic seaboard.

TAKE YOUR CHOICE

THE U.S. Army Air Force can test airplane engines at altitudes of 40,000 feet, where it's 67 below, or at low altitudes over deserts where the temperature soars to 120 F—without taking the ships from the ground.

Testing is done in a laboratory where refrigeration equipment, electric heaters, and air evacuating equipment take over for the elements.

One such lab, for which G.E. is building electrical equipment, will house several test chambers, in each of which engines will be tested under different conditions.

To accomplish this, air will be partly conditioned and then delivered to various test chambers. At each test chamber the air will be further conditioned to obtain the exact humidity, temperature, and pressure for the particular condition desired. Then the air will be delivered to the engine carburetors.

GENERAL ELECTRIC

903-53-211

Station WSRH Expected To Go On Pipes Using "Wired-Wireless" System In Dorm

Ingenious Frosh Making Elaborate Plans For Local Stations Amid Priorities

A few of the more technically minded freshmen in Sanford Riley Hall are now formulating plans for a broadcasting system to keep the residents of the "dorm" supplied with good music and interesting comments. This plan has been in mind for some time, but restrictions and priorities have made it impossible to put the system in operation. However, at the present time, success is in view, and the men who have planned the system have begged, borrowed or stolen practically all the necessary equipment for operation.

The idea itself is not exactly new for at various times in the past, Sanford Riley men have had similar set-ups, but the spirit of the operators seems to hit a new high. Of course, there is still a possibility that the plan may still be delayed, but chances look good.

Just exactly what is planned for program matter on the "wired wireless" system (which will probably be called WSRH) is not to be revealed until programs are actually ready to be presented, but some of the ideas

on tap are inter-floor quiz shows, college news, advertising (if possible), and live and recorded music.

"Wired wireless differs from actual broadcasting in that the field strength of the transmitter must not exceed fifteen microvolts per meter at a distance from the transmitter of the wave length divided by two pi." So goes the definition of the Federal Communications Commission. In other words, the intensity of the transmitter signal is so low that it will not interfere with normal radio reception, and thus no license is required.

The signal will be fed from the transmitter into either the electric current wires or the pipes of the heating system and the programs can be picked up by any standard radio broadcast receiver. Since the dormitory is a steel frame building, unwanted radiation will be reduced to a minimum, and will cause disturbance to no outsiders. Some of the other technical details are: receiving tubes are used throughout, the frequency will be about six hundred kilocycles.

Freshmen—watch for Station WSRH.

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Sports Sidelights

(Continued from Page 3, Col. 2)

Alumni Gymnasium to take on the locals. Last Saturday night Manhattan Coast Guard beat this same Wesleyan team by 10 points. However, this should not be too heartening, for the New York Coast Guard Base has come up with quite a team and has an impressive record to date. Therefore, look for a little better competition this Saturday. By the way, there's an old jinx on the Hill that does not allow a Tech Basketball Team to win its first five games. It's been many a year since this has been broken, but it looks as if this year's team has the stuff to do the job.

How did you like the J.V. game? Yes indeed, maybe we do have a junior varsity after all. After the number of defeats they suffered, even a win would have been quite a surprise but such a decisive one was very enheartening. This Saturday they play St. Peter's High and they will have to look equally as good against this better team.

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Essay Prize Rules

(Continued from Page 1, Col. 4)

azine; that is, it should be intelligible to readers outside of scientific and engineering circles, and should appeal to normal average curiosity and interest.

The essay should give evidence of precise and fairly comprehensive knowledge of the subject. It should not be copied or abstracted in whole or in part from any source. It should be accompanied by a bibliography or by a statement of the writer's experience, or by both. It should conform grammatically and rhetorically to the rules of good English. The essay must be typewritten on paper 8½ by 11 inches, on one side only, double spaced, with margins 1½ inches at the left, 1 inch at the right, and 1 inch at the bottom. The pages should be numbered consecutively at the top.

All essays must be handed in before 12:00 o'clock noon on Wednesday, April 14, 1943, at the office of Professor Charles J. Adams, Room 16, Boynton Hall. In case none of the essays submitted is deemed satisfactory, the award may be withheld at the discretion of the President.

The Committee is as follows: Prof. Charles J. Adams, Chairman, Prof. Francis J. Adams, Prof. Stanley H. Fillion, and Dr. Geason H. McCullough.

New G. E. Equipment

(Continued from Page 1, Col. 3)

Company has given the instrument to the Civil Department with the understanding that all the facilities of the department would be made available to them if the need for a special investigation arose.

The Civil Engineering Department already possesses another instrument for determining stresses in structure by means of measuring deflection in models called the Beggs Deformeter. It consists of a micrometer measuring microscope with various gauges which are used to set up known deflections in a celluloid model. By measuring the resulting deflections at points of loading, reactions and stresses may be determined. The Gottschalk Continostat works on the same principle, but is better adapted to such structures as bridges continuous over a number of spans and building frames, whereas the Beggs Deformeter is most useful in studying arches and curved beam structures such as the modern suspension bridge tower.

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